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chemistry assay.

2. The diagnostic system according to claim 1, wherein said immunoassay analyzer and said clinical chemistry analyzer each have a respective local processor in communication with said processor, wherein the local processors respectively control execution of measurements specified by said processor on the immunoassay and clinical chemistry analyzer.

3. The diagnostic system according to claim 2, wherein said processor communicates with each of said local processors via a network.

4. The diagnostic system according to claim 3, wherein said network is a public or private network.

5. The diagnostic system according to claim 2, wherein said local processors each independently and selectively execute a local program or subroutine to control a sequence of measurements in response to a command from said processor.

6. The diagnostic system according to claim 1, wherein said processor supports the diagnosis of the pathology.

7. (Amended) The diagnostic system according to claim 1, wherein the diagnosis of the pathology for the subject is based, at least in part, on results from the [measurments] measurements executed according to said reflex algorithm and on additional stored information concerning the subject.

8. (Amended) The diagnostic system according to claim 1, further comprising a hematology analyzer coupled to said processor, and wherein [said measurements specified by] the program further specifies hematology measurements to be [include a measurement] executed by the hematology analyzer in response to a command from said processor.

9. (Amended) A system for executing a sequence of biochemical marker measurement steps to generate an indication of a pathology, the biochemical marker measurement steps including an immunoassay measurement and a clinical chemistry assay [measurements] measurement, [to generate an indication of a pathology,] the biochemical marker measurement steps including measuring a concentration level or an activity of at least one biochemical marker in a urine, serum, plasma or whole blood sample, the system comprising:

means for performing an immunoassay measurement;

means for performing a clinical chemistry assay measurement;

means for sample handling between the immunoassay [measurment] measurement

means and the clinical chemistry assay measurement means;

means for storing information representing a reflex algorithm indicating a plurality of predetermined sequences of biochemical marker measurements;

means for receiving information concerning outputs from biochemical marker measurements conducted on the immunoassay means and the clinical chemistry assay means;

means for selectively commanding said immunoassay measurement means and said clinical chemistry assay means to perform a specified biochemical marker measurement according to said reflex algorithm; and

means for specifying an indication of the pathology according to the stored information in response to the information concerning outputs from biochemical marker measurements.

10. (Amended) A system for executing a sequence of biochemical marker measurement steps, the biochemical marker measurement steps including immunoassay and clinical chemistry assays, the biochemical marker measurement steps including measuring a concentration level or an activity of at least one biochemical marker in a serum, plasma or whole blood sample obtained from [said individual] a subject at a time specified by a reflex algorithm, the system comprising:

immunoassay instrumentation that allows automatic execution of an immunoassay